CONTENTS TO VOLUME 35

PART 1 FEBRUARY 1986

Large-scale disruptions in a current-carrying magnetofluid. J. P. DAHLBURG, D. MONTGOMERY, G. D. DOOLEN and W. H. MATTHAEUS 1

Models of laser-plasma ablation. G. J. PERT 43

Alfvén wave heating of a cylindrical plasma using axisymmetric waves. Part 2. Kinetic theory. I. J. DONNELLY, B. E. CLANCY and N. F. CRAMER 75

Effects of particle trapping on distortion of the distribution function of RF-heated minority ions in a tokamak plasma. D. ANDERSON and M. LISAK 107

More on the expansion of a collisionless plasma into the wake of a body. K. H. WRIGHT, D. E. PARKS, I. KATZ, N. H. STONE and U. SAMIR 119

Frequency doubling of extraordinary wave. V. M. ČADEŽ and D. JOVANOVIĆ 125

Ohm's law for mean magnetic fields. A. H. BOOZER 133

Removable background inhomogeneity and non-steadiness in the evolution of the envelopes of nonlinear waves. V. B. TARANOV 141

On the stability of hydromagnetic flow. R. J. LUCAS 145

Electrical a.c. conductivity for hot isotropic collisional plasmas. H. HEBENSTREIT and K. SUCHY 151

Scattering of relativistic electron beams in a plasma by beam-induced waves and magnetic field errors. G. BENFORD 165

Resonant electron diffusion as a saturation process of the synchrotron maser instability. M. C. LEE and S. P. KUO 177

Corrigendum. W. A. NEWCOMB 185

PART 2 APRIL 1986

Electron cyclotron waves: dispersion and accessibility conditions in isotropic and anisotropic plasmas. P. A. ROBINSON 187

The effect of plasma compressibility on the Kelvin–Helmholtz instability. D. PRIALNIK, A. EVIATAR and A. I. ERSHKOVICH 209

Effect of higher-order nonlinearity on propagation of nonlinear ion-acoustic waves in a collisionless plasma consisting of negative ions. S. G. TAGARE and R. V. REDDY 219

Spherically symmetric high-velocity plasma expansions into background gases. T-H. Tan and J. E. Borovsky 239

Covariant ponderomotive Hamiltonian. A. Achterberg 257

Finite-amplitude solitary Alfvén waves in a low-beta plasma. M. K. Kalita and B. C. Kalita 267

Infinite contraction in force-free magnetic field evolution in cylindrical geometry. P. A. Watterson 273

A mechanism for Taylor relaxation in Z-pinches. Part 1. Dynamo mechanism. S. K. H. Auluck 295

Relaxation of magnetic field in a plasma via the tearing mode. S. K. H. Auluck 311

New representations of dielectric tensor elements in magnetized plasma. I. P. Shkarofsky 319

Magnetic field-line reconnection with jets. A. M. Soward and E. R. Priest 333

Part 3 June 1986

On the generation of quasi-electrostatic half-electron-gyrofrequency VLF emissions in the magnetosphere. N. Ohmi and M. Hayakawa 351

Kelvin–Helmholtz instabilities of supersonic, magnetized shear layers. S. Roy Choudhury 375

Low-frequency drift-induced instabilities in a magnetized two-ion plasma. R. Bharuthram and M. A. Hellberg 393

Acceleration and heating in quasi-linear diffusion. K. Rypdal 413

Low-frequency waves in a high-beta collisionless plasma: polarization, compressibility and helicity. S. P. Gary 431

Hamiltonian theory of guiding centre motion revisited. B. Weyssow and R. Balescu 449

Collisional transfer of energy and momentum between drifting tri-Maxwellians. R. Hernández and E. Marsch 473

Theory of beat-wave current drive. J. T. Mendonça and R. M. O. Galvão 483

Suprathermal drift through a warm collisional plasma: evolutional solution. L. Chee-Seng 493

Nonlinear oblique modulation of ion-acoustic waves in a two warm ion plasma. R. S. Chhabra and S. R. Sharma 505

A comparative measurement of the neutral density and particle confinement time in EBT-S. J. C. GLOWIENKA and R. K. RICHARDS 519

A comparative study of the instabilities of two classes of nonlinear waves in cold plasmas. F. J. ROMEIRAS and G. ROWLANDS 529

AUTHOR INDEX TO VOLUME 35 541